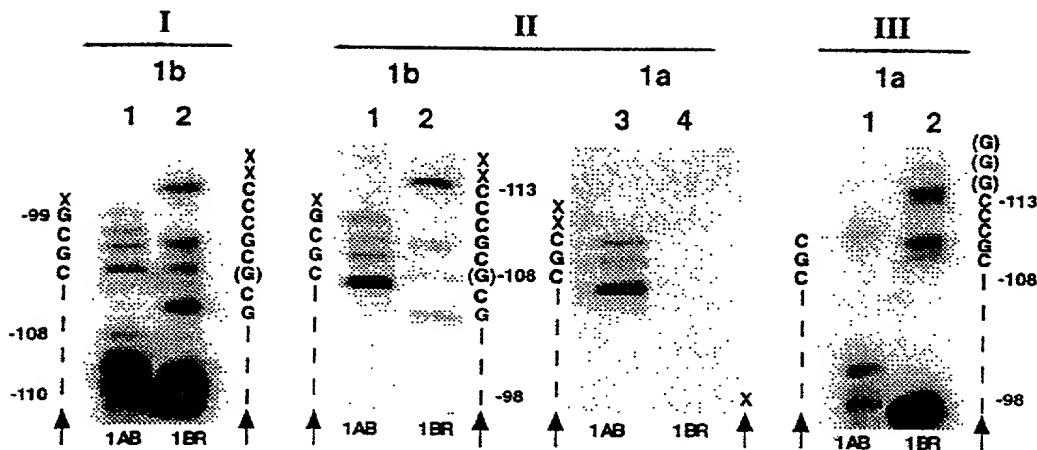


PRIMER-SPECIFIC AND MISPAIR EXTENSION ASSAY FOR IDENTIFYING GENE VARIATION

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-113 -108 -99
1a 5'-----TTTGGGCG (T)GCCCGCGCAAGAC-----3'

X \leftarrow 1BR 5'

1b 5'-----TTTGGGCG (T) GCCCCCGCGAGAC-----3'
 XXXCCCGC (G) CGGGGGCGC← 1BR 5'

XXXXCCC(G)CGGGGGCGC← 1BR 5'

I' and II'

1a 3'-----AAACCCGC (A) CGGGGGCGTTCTG-----5'
 5' 1AB CG (C) GCCCCCGCXX

31. **ANSWER:** AAAGCCCC (A) CCCCCCCCCCTT

1b 3'-----AAACCCGGC (A) CGGGGGGGGCTCTG-----5'
5'-----TATGCG (G) GGGGGGGGGGAG-X-

5' TAB CG(C)GCCCGGCGx x

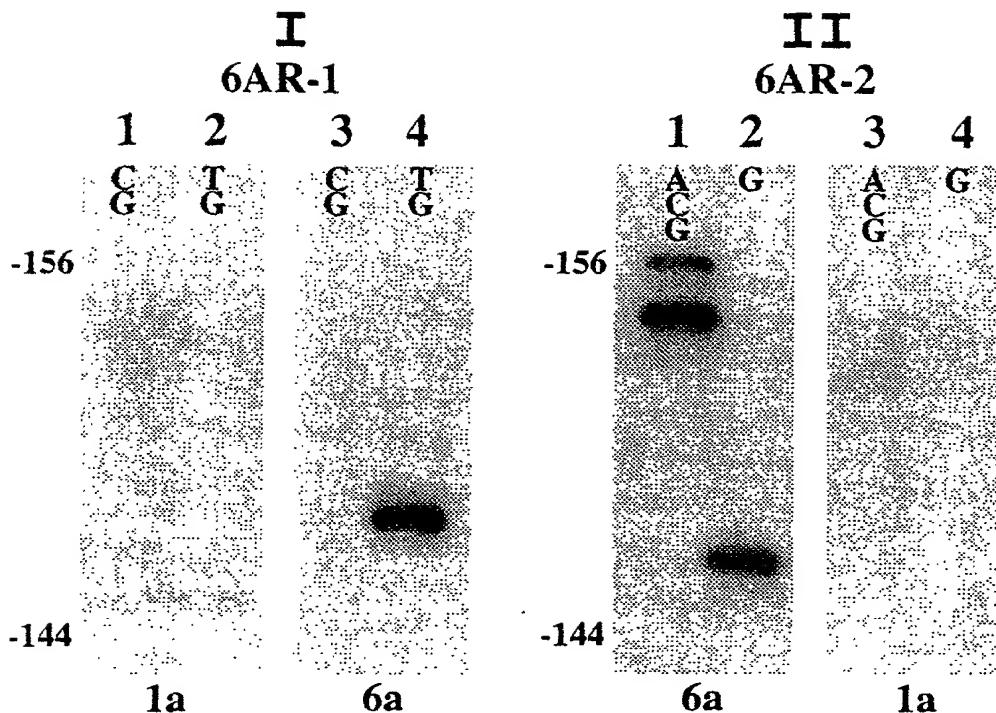
-113 -108 -99

三

1a 5'-----TTTGGGCG (T) GCCCCCGC (A) AGAC-----3'
 AAACCCGC (G) CGGGGGCG (C) ← 1BR 5'

三-I

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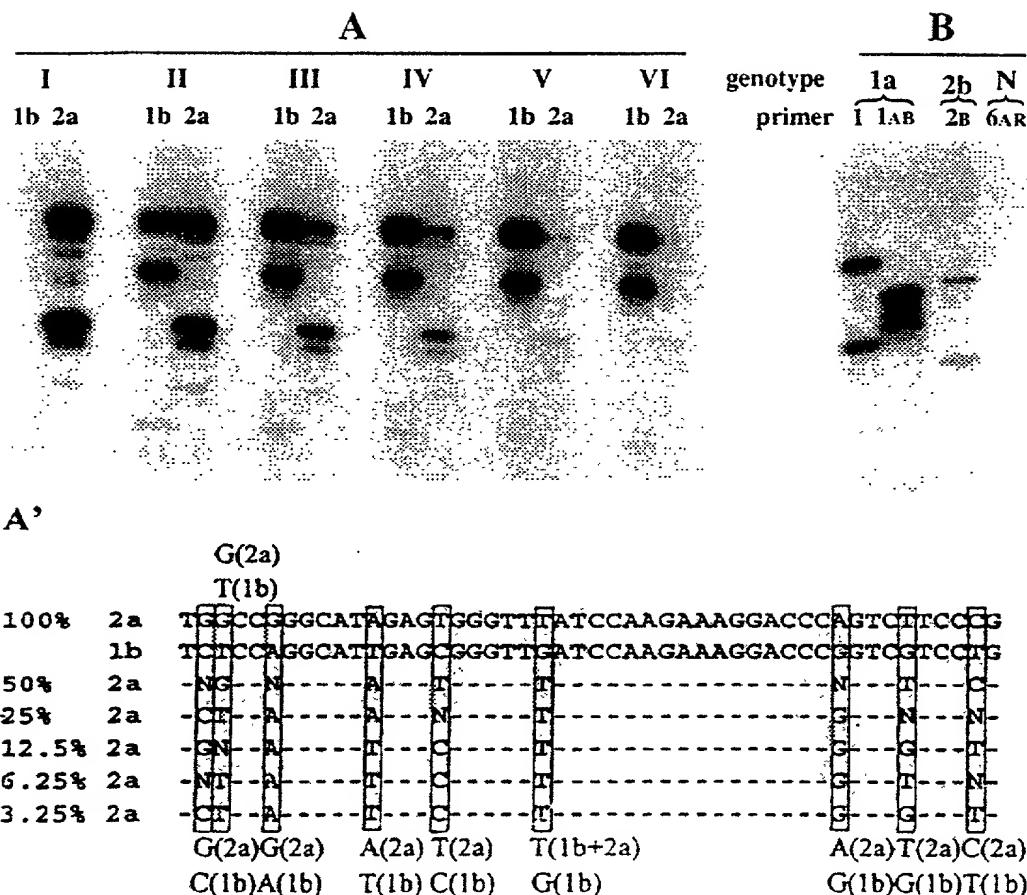
	-157	-145	-144	
I-1	la 5'---AGGACCGGGTCCCTTC	(. .)	TTGG-----3'	
I-2	X	← 6AR-1	5'	C, G
I-3	X	← 6AR-1	5'	G, T
I-4	XXG	G T	← 6AR-1	5'
				C, G
				G, T
II-1	6a 5'---AGGACCGGGTCCCTTC	(C A)	TTGG-----3'	
II-2	XGGCCCAGGAAAG	G ← 6AR-2	5'	A, C, G
II-3	XXG	G ← 6AR-2	5'	G
II-4	la 5'---AGGACCGGGTCCCTTC	(. .)	TTGG-----3'	
	X	↔ 6AR-2	5'	A, C, G
	X	↔ 6AR-2	5'	G

7x2

PRIMER-SPECIFIC AND MISPAIR EXTENSION
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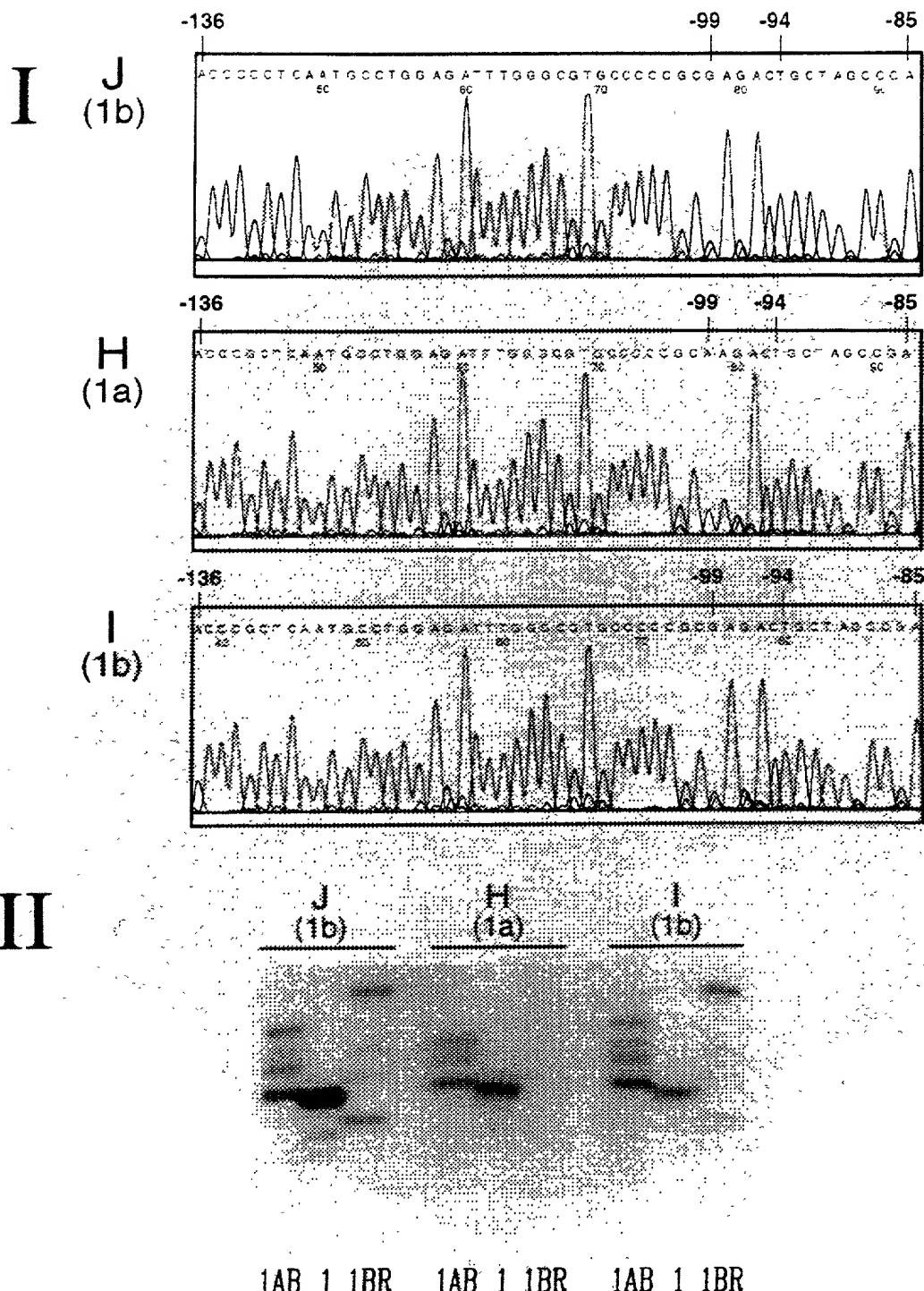


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PRIMER-SPECIFIC AND MISPAIR EXTENSION
ASSAY FOR IDENTIFYING GENE VARIATION

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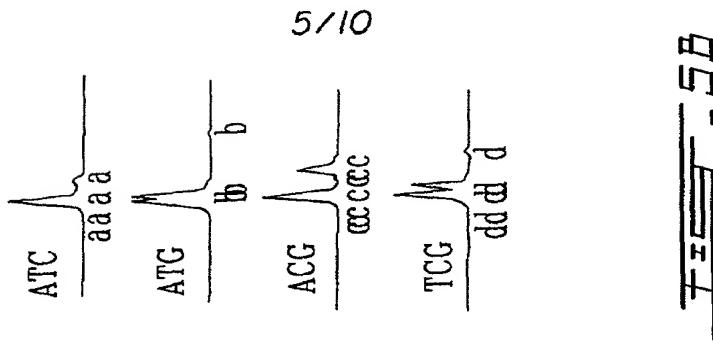
— 4 —

PRIMER-SPECIFIC AND MISPAIR EXTENSION
ASSAY FOR IDENTIFYING GENE VARIATION

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dNTPs Expected base extension

ATC	<u>Primer → T</u>	CAXX	3
ATG	<u>Primer → T</u>	X-XX	1
ACG	<u>Primer → X-X</u>		0
TCG	<u>Primer → T</u>	CX--X	2
WT-----A	-----	GTCCACATCCT-----	(SEQ ID NO:16)
ATC	<u>Primer → X</u>	X	0
ATG	<u>Primer → G</u>	XX	1
ACG	<u>Primer → G</u>	CAGGX-X	5
TCG	<u>Primer → G</u>	CX--X	2
MU-----C	-----	GTCCACATCCT-----	(SEQ ID NO:17)



PRIMER-SPECIFIC AND MISPAIR EXTENSION
ASSAY FOR IDENTIFYING GENE VARIATION

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3' XTCATACTTCCATGAGTATCTTAGACACCTGTATTTCG 5' L63 + PRIMER (1) (SEQ ID NO:18)
5' AGACAGTATGATCAGGTACTCATAGAAATCTGGACATAAAGC 3' PRO63L(G)-R (SEQ ID NO:19)

X

3' GAGTATCTTAGACACCTGTATTTCG 5' L63P + PRIMER (2) (SEQ ID NO:20)
5' AGACAGTATGATCAGGTACCCATAGAAATCTGGACATAAAGC 3' PRO63L(G)-R (SEQ ID NO:21)

6'-O

3' XTCATACTTCCATGGGTATCTTAGACACCTGTATTTCG 5' L63P + PRIMER (3) (SEQ ID NO:22)
5' AGACAGTATGATCAGGTACCCATAGAAATCTGGACATAAAGC 3' PRO63P(G)-R (SEQ ID NO:21)

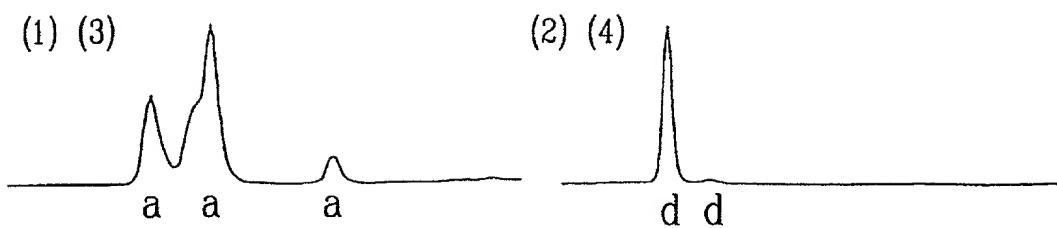
X

3' GGGTATCTTAGACACCTGTATTTCG 5' L63 + PRIMER (4) (SEQ ID NO:23)
5' AGACAGTATGATCAGGTACTCATAGAAATCTGGACATAAAGC 3' PRO63P(G)-R (SEQ ID NO:19)

T-T-T-T-GA

PRIMER-SPECIFIC AND MISPAIR EXTENSION
ASSAY FOR IDENTIFYING GENE VARIATION
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PRIMER-SPECIFIC AND MISMATCH EXTENSION
ASSAY FOR IDENTIFYING GENE VARIATION

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3' XXAGACTTCTGAGCTAACCAACGTGAAATTAA 5' PRO90L-R (1) (SEQ ID NO: 24)
5' --AATCTGAAGACTCAGATTGGTGCACTTAAAT---3' L90 (SEQ ID NO: 25)

X

3' TTCTGAGCTAACCAACGTGAAATTAA 5' PRO90L-R (2) (SEQ ID NO: 26)
5' --AATCTGATGACTCAGATTGGTGCACTTAAAT---3' L90M (SEQ ID NO: 27)
5' CTGTCAACATAATTGGAAGAAAATCTGAT**GACGGAGAXX** 3' PRO90M-F (3) (SEQ ID NO: 28) 8/
3' --GACAGTTGTATTAAACCTTCTTAGACTACTCGGTCTAA---5' L90M (SEQ ID NO: 29) 10

X

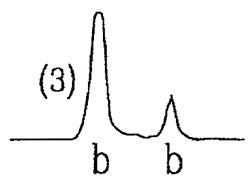
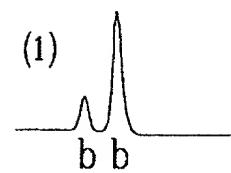
5' CTGTCAACATAATTGGAAGAAAATCTGAT 3' PRO90M-F (4) (SEQ ID NO: 30)
3' --GACAGTTGTATTAAACCTTCTTAGACAACTGAGTCTAA--5' L90 (SEQ ID NO: 31)

TECE - 7A.

PRIMER-SPECIFIC AND MISMATCH EXTENSION
ASSAY FOR IDENTIFYING GENE VARIATION

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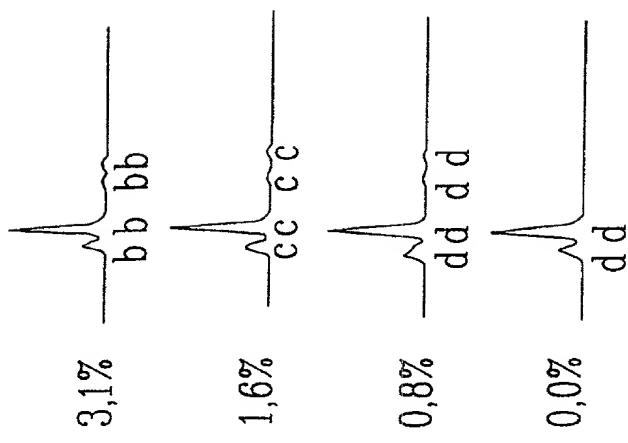


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PRIMER-SPECIFIC AND MISPAIR EXTENSION
ASSAY FOR IDENTIFYING GENE VARIATION

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→ T AGTTGTTATTAXX (SEQ ID NO: 32)
----- A TCAACATAATTGGAAAGA (SEQ ID NO: 33)
→ X ----- G -----
MU -----
WT -----
